

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/06060

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B60J7/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B60J B60D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 202 455 A (GROTZ MIKE E) 24 August 1965 (1965-08-24)	1-4, 9
Y	column 2, line 31 - column 3, line 25 figures 1-4	5-8, 10-12
Y	US 6 217 102 B1 (LATHERS MICHAEL W) 17 April 2001 (2001-04-17) column 6, line 43 - line 52 column 9, line 35 - column 10, line 5 column 11, line 63 - column 12, line 2 figures 4,7,8,11A,11B,11C ----- -/-	5-7, 10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

4 May 2004

Date of mailing of the international search report

12/05/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Verkerk, E

INTERNATIONAL SEARCH REPORT

International Application No
PC1/IB 03/06060

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 086 134 A (CRAVENS BRADELY JOSEPH ET AL) 11 July 2000 (2000-07-11) column 3, line 12 - line 16 column 4, line 65 - column 5, line 9 figures 1B,3	8,11,12
P,X	US 2003/057725 A1 (DOMINGUEZ ALFREDO ET AL) 27 March 2003 (2003-03-27) figures 1-6	1,2,5-7

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/06060

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3202455	A	24-08-1965	NONE	
US 6217102	B1	17-04-2001	US 6712418 B1	30-03-2004
US 6086134	A	11-07-2000	NONE	
US 2003057725	A1	27-03-2003	NONE	